



2005 Energy Report Proceeding

Staff Proposal for Electricity and
Transmission Planning Data Submittals

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Purpose of IEPR Analysis

- Inform 2006 CPUC Long Term Procurement Proceeding
- Assess future resource needs of the state's LSEs
- Evaluate contribution of selected classes of resources to state's capacity needs

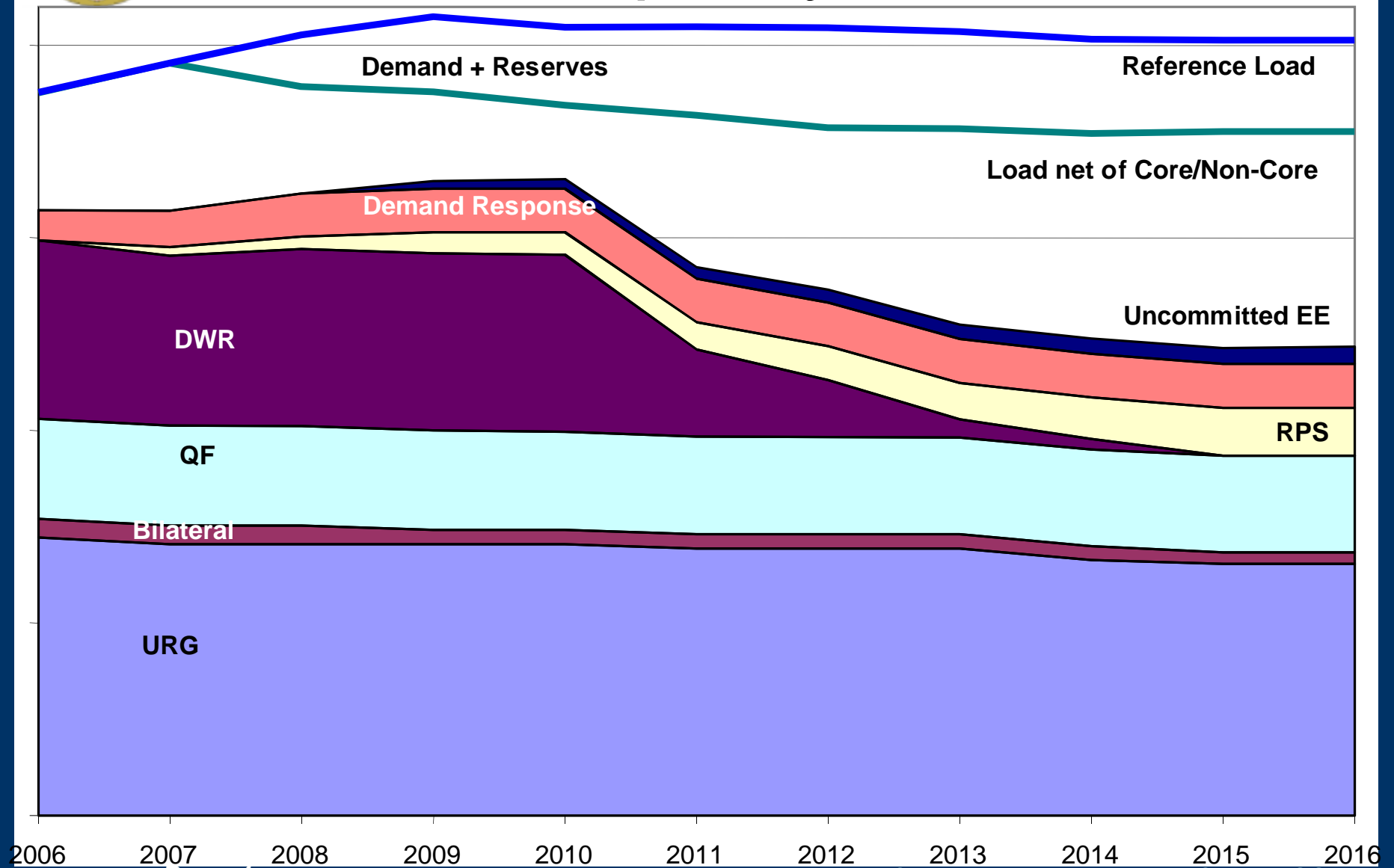


Who and What

- With one exception, LSEs are the only entities asked to submit data
- Different classes of LSEs (IOUs, municipal utilities, ESPs) are asked to submit different amounts, types of data
- Ten-year resource plans are the core component of the data requested
- Analysis submitted expected to address major uncertainties



Capacity Needs





Loads and Existing Resources

- Standard treatments of load, committed DSM and EE
- ESPs are asked to distinguish between customers under contract and new/departing customers
- Standard capacity accounting conventions for physical and contractual resources
- Assume all QF capacity remains in service of IOU loads
- Assume existing targets for preferred resources are met



Non-existing Resources

- Distinguish between planned resources (committed to, “in the pipeline”) and those additional (“generic”) resources expected to meet residual load and reserve obligations at least cost
- “Generic” resources should be defined to the extent that it is reasonably possible.



“Future” Resources

- IOUs, LADWP, SMUD, IID requested to provide estimates of renewable resources (by technology, zone/control area) that would be procured to meet a 20% of retail sales target by 2010.
- All other characterizations of “generic resources should be defined in terms of the residual load obligations and capacity needs that will be met.



Addressing Uncertainty

- Load Obligations (Core/Non-core)
- Transmission upgrades
- Sensitivity of costs to natural gas and wholesale electricity price changes
- Sensitivity of costs to carbon (dioxide) tax
- Uncertainty of meeting targets
- ?



Deliverability

- Discussion of deliverability required in LTPP
- ISO undertaking studies in context of Resource Adequacy proceeding
- Staff does not know what data would be most useful, could be provided in near-term
- Staff proposes discussions with ISO, CPUC, IOUs in advance of next workshop



Other Data Requested

- Bilateral contract information
 - to quantify possible shifts in load obligations
 - to determine how much capacity, which facilities are committed to serving CA load
 - to assess capacity procured under various resource adequacy eligibility requirements
 - to provide insight regarding energy costs associated with renewable resources



Other Data Requested...

- Historical hourly QF purchases
 - to assess QF capacity during peak hours
 - 2003 - 2004
 - by contract (aggregated < 10 MW)
- Projected QF generation & costs
 - to assess potential impact of QF policy
 - 2006 - 2016
 - by contract



Other Data Requested...

- Historical hourly hydro generation data
 - For 1998 - 2004
 - From LADWP, SMUD, IID, CCSF, USBR, TID, MWD
 - To assess hydro capacity at peak under various hydrology conditions
 - By facility, in support of Environmental Performance Report



Other Data Requested...

- Hourly wind generation survey & data
 - To determine “state of the art” component of wind generation
 - In cooperation with CalWEA
 - (QF) data from IOUs, granular data from selected generators



Filing Dates

- March 1, 2005 for materials related to reference case and hydro, QF and bilateral contract information
- April 1, 2005 for “uncertainty” analyses



Transmission Data

- **Why:** The CEC is legislatively required to adopt a state wide strategic grid plan. “The strategic plan shall identify and recommend actions required to implement investments needed to ensure reliability, relieve congestion, and meet future growth in load and generation...”
- The grid plan will build on the 2004 CA ISO annual grid planning results, the submittals of LSEs and 2005 Energy Report record.



Transmission Data

- **What:** Staff is requesting both a description of the transmission planning and approval process used by each LSE and data on specific transmission projects.
- The project specific data would be tiered according to expected project size.
- Data tables similar to the IOU AB 970 monthly status submittals would be required for small projects
- Detailed economic studies would be required for large projects. These studies should include an assessment of strategic benefits and corridors.



Transmission Data

- **Who:** Only transmission owning LSEs would be required to file transmission data.
- **When:** Submittals would be required by March 1, 2004.